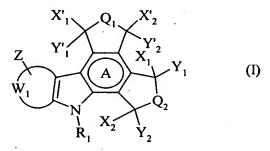
CLAIMS

Claims 1 - 20 (canceled)

21- (new) A compound selected from those of formula (I):



wherein:

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- A represents a saturated or partially or fully unsaturated ring, wherein the unsaturation optionally confers an aromatic nature on the ring,
- W₁, together with the carbon atoms to which it is bonded, represents phenyl or pyridyl,
- Z represents one or more identical or different groups of formula U-V wherein:
 - ✓ U represents a single bond, linear or branched (C₁-C6)alkylene, linear or branched (C₂-C6)alkenyl optionally substituted by one or more identical or different groups selected from halogen and hydroxy, and/or optionally containing one or more unsaturated bonds,
 - ✓ V represents a group selected from hydrogen, halogen, cyano, nitro, azido, linear or branched (C₁-C₆)alkyl, aryl, aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, hydroxy, linear or branched (C₁-C₆)alkoxy, aryloxy, aryl-(C₁-C₆)alkoxy in which the alkoxy moiety may be linear or branched, formyl, carboxy, aminocarbonyl, NR₃R₄, -C(O)-T₁, -C(O)-NR₃-T₁, -NR₃-C(O)-T₁, -O-C(O)-T₁, -C(O)-O-T₁, -NR₃-T₂-NR₃R₄, -NR₃-T₂-OR₃, -NR₃-T₂-CO₂R₃, -O-T'₂-NR₃R₄, -O-T'₂-OR₃, -O-T'₂-CO₂R₃, and -S(O)_t-R₃,

wherein:

⇒ R₃ and R₄, which may be indentical or different, each represents a group selected

from hydrogen, linear or branched (C_1-C_6) alkyl, aryl, and aryl- (C_1-C_6) alkyl in which the alkyl moiety may be linear or branched, or

R₃ and R₄, together with the nitrogen atom carrying them, form a saturated monocyclic or bicyclic heterocycle that has from 5 to 10 ring atoms, and which optionally contains in the ring system a second hetero atom selected from oxygen and nitrogen, and which is optionally substituted by a group selected from linear or branched (C₁-C₆)alkyl, aryl, aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, hydroxy, linear or branched (C₁-C₆)alkoxy, amino, linear or branched mono-(C₁-C₆)alkylamino, and di(C₁-C₆)alkylamino in which the alkyl moieties may be linear or branched,

- ⇒ T₁ represents a group selected from linear or branched (C₁-C₆)alkyl which may be optionally substituted by a group selected from -OR₃, -NR₃R₄, -CO₂R₃, -C(O)R₃ and -C(O)NR₃R₄ wherein R₃ and R₄ are as defined hereinbefore; aryl, and aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched; or T₁ represents linear or branched (C₂-C₆)alkenyl optionally substituted by a group selected from -OR₃, -NR₃R₄, -CO₂R₃, -C(O)R₃ and -C(O)NR₃R₄ wherein R₃ and R₄ are as defined hereinbefore,
- \Rightarrow T₂ represents linear or branched (C₁-C₆)alkylene,
- ⇒ T'₂ represents a linear or branched (C₁-C₆)alkylene optionally substituted with one ore more hydroxy groups,
- ⇒ t represents integer of from 0 to 2 inclusive,

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- or Z represents methylenedioxy or ethylenedioxy,
- Q₁ represents a group selected from oxygen, NR₂, wherein R₂ represents a group selected from hydrogen, linear or branched (C₁-C₆)alkyl, aryl, aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, cycloalkyl, cycloalkyl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, -OR₃, -NR₃R₄, -O-T₂-NR₃R₄, -NR₃-T₂-NR₃R₄, linear or branched (C₁-C₆)hydroxyalkylamino, di((C₁-C₆)hydroxyalkyl)amino, in which the alkyl moieties may be linear or branched, -C(O)-R₃ and -NH-C(O)-R₃; or R₂ represents linear or branched (C₁-C₆)alkylene substituted by one or more identical or different groups selected from halogen, cyano, nitro, -OR₃, -NR₃R₄, -CO₂R₃, -C(O)R₃, linear or branched (C₁-C₆)-hydroxyalkylamino, di((C₁-C₆)hydroxyalkyl)amino, in which the alkyl moieties may be

linear or branched, and -C(O)-NHR₃, R₃, R₄ and T₂ being as defined hereinbefore,

- Q₂ represents a group selected from oxygen, NR'₂, wherein R'₂ represents a group selected from hydrogen, linear or branched (C₁-C₆)alkyl, aryl, aryl-(C₁-C₆)alkyl, in which the alkyl moiety may be linear or branched, cycloalkyl, cycloalkyl-(C₁-C₆)alkyl, in which the alkyl moiety may be linear or branched, -OR₃, -NR₃R₄, -O-T₂-NR₃R₄, -NR₃-T₂-NR₃R₄, linear or branched (C₁-C₆)hydroxyalkylamino, di((C₁-C₆)hydroxyalkyl)amino, in which the alkyl moieties may be linear or branched, -C(O)-R₃ and -NH-C(O)-R₃; or R'₂ represents a linear or branched (C₁-C₆)alkylene substituted by one or more identical or different groups selected from halogen, cyano, nitro, -OR₃, -NR₃R₄, -CO₂R₃, -C(O)R₃, linear or branched (C₁-C₆)hydroxyalkylamino, di((C₁-C₆)hydroxyalkyl)amino, in which the alkyl moieties may be linear or branched, and -C(O)-NHR₃, R₃, R₄ and T₂ being as defined hereinbefore,
 - X₁ represents a group selected from hydrogen, hydroxy, linear or branched (C₁-C₆)alkoxy, mercapto, and linear or branched (C₁-C₆)alkylthio,
- Y₁ represents hydrogen, or

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- X₁ and Y₁, with carbon carrying them, together form carbonyl or thiocarbonyl,
- X₂ represents a group selected from hydrogen, hydroxy, linear or branched (C₁-C₆)alkoxy, mercapto and linear or branched (C₁-C₆)alkylthio,
- Y₂ represents hydrogen, or
- X₂ and Y₂, with carbon carrying them, together form carbonyl or thiocarbonyl,
 - X'₁ represents a group selected from hydrogen, hydroxy, linear or branched (C₁-C₆)alkoxy, mercapto and linear or branched (C₁-C₆)alkylthio,
 - Y'1 represents hydrogen, or
 - X'₁ and Y'₁, with carbon carrying them, together form carbonyl or thiocarbonyl,
- X'₂ represents a group selected from hydrogen, hydroxy, linear or branched (C₁-C₆)alkoxy, mercapto and linear or branched (C₁-C₆)alkylthio,
 - Y'2 represents hydrogen, or

- X'2 and Y'2, with carbon carrying them, together form carbonyl or thiocarbonyl,
- R_1 represents a group selected from hydrogen, linear or branched (C_1 - C_6)alkyl which may be optionally substituted by one or more groups selected from hydroxy, linear or branched (C_1 - C_6)alkoxy, linear or branched (C_1 - C_6)hydroxyalkoxy or NR_3R_4 , the groups R_3 and R_4 being as défined hereinbefore; or R_1 represents a group of formula (a):

$$R_{e} \xrightarrow{O \xrightarrow{R_{a}}} R_{b} \qquad (a)$$

wherein:

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- ✓ R_a, R_b, R_c and R_d, which may be identical or different, each represents, independently of the others, a bond or a group selected from hydrogen, halogen, hydroxy, linear or branched (C₁-C₆)alkoxy, aryloxy, aryl-(C₁-C₆)alkoxy in which the alkoxy moiety may be linear or branched, linear or branched (C₁-C₆)alkyl, aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, aryl, -NR₃R₄ wherein R₃ and R₄ are as defined hereinbefore, azido, -N=NR₃ (wherein R₃ is as defined hereinbefore), -O-C(O)-R₅ wherein R₅ represents linear or branched (C₁-C₆)alkyl (optionally substituted by one or more groups selected from halogen, hydroxy, amino, linear or branched (C₁-C₆)alkylamino, and di(C₁-C₆)alkylamino in which the alkyl moieties may be linear or branched); or R₅ represents aryl, aryl-(C₁-C₆)alkyl in which the alkyl moiety may be linear or branched, cycloalkyl or heterocycloalkyl,
- \checkmark R_e represents methylene (H₂C=) or a group of formula -U₁-R_a wherein U₁ represents single bond, methylene and R_a is as defined hereinbefore,
- \checkmark n is 0 or 1,

it being understood that the group of formula (a) is bonded to the nitrogen atom by R_a , R_b , R_c , R_d or R_c ,

its enantiomers, diastereoisomers, and addition salts thereof with a pharmaceutically acceptable acid or base,

with the proviso that the compound may not be:

- 3b,6a,6b,7-tetrahydro-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6-(2*H*,3a*H*,5*H*)-tetrone;
- 5-ethyl-3b,6a,6b,7-tetrahydro-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6-(2*H*,3a*H*,5*H*)-tetrone;
- 3b,6a,7,11c-tetrahydro-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6-(2*H*,3a*H*,5*H*)-tetrone;
- 3b,6a,6b,7-tetrahydrofuro[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6-(2H,3aH,5H)-tetrone;

wherein aryl is understood to mean a phenyl, naphthyl, dihydronaphthyl, tetrahydronaphthyl, indenyl or indanyl group, each of those groups optionally being substituted by one or more identical or different groups selected from halogen, linear or branched (C₁-C₆)alkyl, linear or branched (C₁-C₆)trihaloalkyl, hydroxy, linear or branched (C₁-C₆)alkoxy, and NR₃R₄, R₃ and R₄ being as defined hereinbefore.

 $\underline{22}$ - (new) A compound of claim 21, wherein X_1 and Y_1 , with the carbon carrying them, together form carbonyl, X_2 and Y_2 , with the carbon carrying them, together form carbonyl, X'_1 and Y'_1 , with the carbon carrying them, together form carbonyl and X'_2 and Y'_2 , with the carbon carrying them, together form carbonyl.

23- (new) A compound of claim 21 wherein Q1 represents -NR2.

24- (new) A compound of claim 21 wherein Q2 represents -NR'2.

25- (new) A compound of claim 21 which is a compound of formula (IA):

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26- (new) A compound of claim 21 which is a compound of formula (IB):

$$Z \xrightarrow{N \longrightarrow O} O \qquad (IB)$$

27- (new) A compound of claim 21 which is a compound of formula (IC):

28- (new) A compound of claim 21 which is a compound of formula (ID):

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$$\begin{array}{c}
R_2 \\
O \\
N \\
O \\
N \\
R_b \\
O \\
R_c
\end{array}$$
(ID)

29- (new) A compound of claim 21 which is a compound of formula (IE):

$$Z \xrightarrow{N} O \\ R_b O \\ R_c \\ R_d$$
 (IE)

30- (new) A compound of claim 21 which is a compound of formula (IF):

$$Z \xrightarrow{N} Q \qquad (IF)$$

$$Z \xrightarrow{N} R_{b} Q \qquad (IF)$$

$$R_{c} \qquad R_{c}$$

<u>31</u>- (new) A compound of claim 21 wherein Z represents a group of formula U-V wherein U represents single bond and V represents a group selected from hydrogen, halogen, nitro, linear or branched (C₁-C₆)alkyl, hydroxy, linear or branched (C₁-C₆)alkoxy, aryl-(C₁-C₆)alkoxy in which the alkoxy moiety may be linear or branched, NR₃R₄, wherein R₃ and R₄ each represents a hydrogen atom.

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32- (new) A compound of claim 21 wherein Z represents a group of formula U-V wherein U represents single bond and V represents a group selected from hydrogen, halogen, hydroxy, aryl-(C₁-C₆)alkoxy in which the alkoxy moiety may be linear or branched.

<u>33</u>- (new) A compound of claim 21 wherein R_1 represents hydrogen, linear or branched (C_1-C_6) alkyl or a group of formula (a):

$$R_e \xrightarrow{Q} R_b R_b$$
 (a)

bonded to the nitrogen atom by Ra,

5 wherein:

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- R_b, R_c, and R_d represent hydroxy, aryl-(C₁-C₆)alkoxy in which the alkoxy moiety may be linear or branched, -O-C(O)-R₅ wherein R₅ represents linear or branched (C₁-C₆)alkyl,
- R_e represents a group of formula U₁-R_a wherein U₁ represents methylene and R_a has the same definitions as R_b, R_c and R_d and n is 0,

34- (new) A compound of claim 21 wherein R₁ represents hydrogen.

<u>35-</u> (new) A compound of claim 21 wherein R_2 represents hydrogen, linear or branched (C_1-C_6) alkyl, OR_3 , NR_3R_4 , or linear or branched (C_1-C_6) alkylene substituted by OR_3 , NR_3R_4 wherein R_3 and R_4 are as defined for formula (I).

15 <u>36</u>- (new) A compound of claim 21 wherein R₂ represents hydrogen, linear or branched (C₁-C₆)alkyl, linear or branched (C₁-C₆)alkylene substituted by NR₃R₄ wherein R₃ and R₄ are as defined for formula I.

<u>37</u>- (new) A compound of claim 21 wherein R'_2 represents hydrogen, linear or branched (C_1-C_6) alkyl, linear or branched (C_1-C_6) alkylene substituted by NR_3R_4 wherein R_3 and R_4 are as defined for formula (I).

38- (new) A compound of claim 21 which is selected from:

- 1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2*H*,5*H*,7*H*)-tetrone,
- 2-methyl-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2*H*,5*H*,7*H*)-tetrone,

- 2,5-dimethyl-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2*H*,5*H*,7*H*)-tetrone,
- 2-[2-(diethylamino)ethyl]-5-methyl-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2*H*,5*H*,7*H*)-tetrone, and
- 10-hydroxy-1*H*-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2*H*,5*H*,7*H*)-tetrone.
- 5 <u>39</u>- (new) A method for treating a living animal body afflicted with cancer comprising the step of administering to the living animal body an amount of a compound of claim 21, which is effective for alleviation of cancer
- <u>40</u>- (new) A pharmaceutical composition useful in treating cancer comprising as active principle an effective amount of a compound of claim 21, together with one or more pharmaceutically acceptable excipients or vehicles.